PCT

REQUEST

For receiving Office use only	
International Application No.	
International Filing Date	
·	
Name of receiving Office and "PCT International A	pplication"

	International Filing Da	le <u> </u>
The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.	Name of receiving Offi	ce and "PCT International Application"
	Applicant's or agent's (if desired) (12 characte	file reference ers maximum) 1494
Box No. I TITLE OF INVENTION		
PHOSPHODIESTERASE INIHIBITOR		
	n is also inventor	
Name and address: (Family name followed by given name; for a legal ent The address must include postal code and name of country. The country of t Box is the applicant's State (that is, country) of residence if no State of residen	he address indicated in this	Telephone No. 03-3282-0036
KYOWA HAKKO KOGYO CO., LTD.		Facsimile No. 03-3282-1527
6-1, Ohtemachi 1-chome, Chiyoda-ku		Teleprinter No.
Tokyo 100-8185 JAPAN		Applicant's registration No. with the Office
State (that is, country) of nationality: JP	State (that is, country)	of residence:
This person is applicant all designated all designated		the United States the States indicated in the Supplemental Box
Box No. III FURTHER APPLICANT(S) AND/OR (FURT	HER) INVENTOR(S)	
Name and address: (Family name followed by given name; for a legal ent The address must include postal code and name of country. The country of t Box is the applicant's State (that is, country) of residence if no State of residence	ity, full official designation.	This person is:
OSAKADA Naoto		applicant only
c/o Pharmaceutical Research Institute		applicant and inventor
KYOWA HAKKO KOGYO CO., LTD.		inventor only (If this check-box is marked, do not fill in below.)
1188, Shimotogari, Nagaizumi-cho, Sunto-g 411-8731 Japan	un, Shizuoka	Applicant's registration No. with the Office
State (that is, country) of nationality: JP	State (that is, country)	of residence:
This person is applicant for the purposes of: all designated the United States all designated the United States.		the United States the States indicated in the Supplemental Box
Further applicants and/or (further) inventors are indicated of	on a continuation sheet.	
Box No. IV AGENT OR COMMON REPRESENTATIVE	; OR ADDRESS FOR	CORRESPONDENCE
The person identified below is hereby/has been appointed to act of the applicant(s) before the competent International Authorities	on behalf as:	agent common representative
Name and address: (Family name followed by given name; for a legal enti- The address must include postal code and name of co	ity, full official designation. ountry.)	Telephone No.
		Facsimile No.
		Teleprinter No.
		Agent's registration No. with the Office
Address for correspondence: Mark this check-box where	no agent or common rep	resentative is/has been appointed and the
space above is used instead to indicate a special address to	wnich correspondence s	hould be sent.

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)					
If none of the following sub-boxes is used, this sheet should not	t be included in the red	quest.			
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence HARUOKA Motoko c/o Pharmaceutical Research Institute	This person is: applicant only applicant and inventor				
KYOWA HAKKO KOGYO CO., LTD.		inventor only (If this check-box is marked, do not fill in below.)			
1188, Shimotogari, Nagaizumi-cho, Sunto-gu 411-8731 Japan		Applicant's registration No. with the Office			
State (that is, country) of nationality: JP	State (that is, country,) of residence: JP			
This person is applicant all designated for the purposes of:	States except ates of America	the United States of America only the States indicated in the Supplemental Box			
Name and address: (Family name followed by given name; for a legal entit The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence	e address indicated in this	This person is: applicant only			
IKEDA Ken c/o Pharmaceutical Research Institute		applicant and inventor			
KYOWA HAKKO KOGYO CO., LTD.		inventor only (If this check-box is marked, do not fill in below.)			
1188, Shimotogari, Nagaizumi-cho, Sunto-gu 411-8731 Japan	ın, Snizuoka	Applicant's registration No. with the Office			
State (that is, country) of nationality: JP	State (that is, country,				
This person is applicant all designated for the purposes of:	States except ates of America	the United States of America only the States indicated in the Supplemental Box			
Name and address: (Family name followed by given name; for a legal entity. The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence of the Country of the Box is the applicant's State (that is, country) of residence if no State of residence of the Country of the Box is the applicant's State (that is, country) of residence if no State of residence of the Country of the Box is the applicant's State of the Country of the Box is the applicant of the Country of the Countr	e address indicated in this e is indicated below.)	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office			
State (that is, country) of nationality: JP	State (that is, country,) of residence: JP			
This person is applicant all designated all designated for the purposes of:	States except ates of America	the United States of America only the States indicated in the Supplemental Box			
Name and address: (Family name followed by given name; for a legal entit The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence MIYAJI Hiromasa c/o Pharmaceutical Research Institute KYOWA HAKKO KOGYO CO., LTD. 1188, Shimotogari, Nagaizumi-cho, Sunto-gi 411-8731 Japan	e address indicated in this e is indicated below.) un, Shizuoka	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office			
State (that is, country) of nationality: JP		IP ·			
		the United States of America only the States indicated in the Supplemental Box			
Further applicants and/or (further) inventors are indicated on another continuation sheet.					

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)					
If none of the following sub-boxes is used, this sheet should not be included in the request.					
Name and address: (Family name followed by given name; for a legal entit The address must include postal code and name of country. The country of th Box is the applicant's State (that is, country) of residence if no State of residence	e address indicated in this				
SHIMADA Junichi					
c/o Pharmaceutical Research Institute	applicant and inventor inventor only (If this check-box				
KYOWA HAKKO KOGYO CO., LTD.	is marked, do not fill in below.)				
1188, Shimotogari, Nagaizumi-cho, Sunto-gu 411-8731 Japan	Applicant's registration No. with the Office				
State (that is, country) of nationality:	I Share (cl. vi)				
JP	State (that is, country) of residence: JP				
	States except ates of America the United States the States indicated in the Supplemental Box				
Name and address: (Family name followed by given name; for a legal entit The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence	e address indicated in this				
	applicant and inventor				
	inventor only (If this check-box is marked, do not fill in below.)				
	Applicant's registration No. with the Office				
State (that is, country) of nationality:	State (that is, country) of residence:				
This person is applicant all designated for the purposes of:	I States except ates of America only the States indicated in the Supplemental Box				
Name and address: (Family name followed by given name; for a legal entit The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence	e address indicated in this				
	Applicant's registration No. with the Office				
State (that is, country) of nationality:	State (that is, country) of residence:				
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This person is applicant all designated for the purposes of:	States except the United States the States indicated in the Supplemental Box				
Name and address: (Family name followed by given name; for a legal entit The address must include postal code and name of country. The country of th Box is the applicant's State (that is, country) of residence if no State of residence	e address indicated in this				
	applicant and inventor				
	inventor only (If this check-box is marked, do not fill in below.)				
	Applicant's registration No. with the Office				
State (that is, country) of nationality:	State (that is, country) of residence:				
	States except attes of America only the States indicated in the Supplemental Box				
Further applicants and/or (further) inventors are indicated on another continuation sheet.					

Box N	o. V	DESIGNATION OF STATES	; 	Mark the applicable check-boxes below	v; at	leas	t one must be marked.
The following designations are hereby made under Rule 4.9(a):							
Regio							
_			M Ga	mbia, KE Kenya, LS Lesotho, MW	/ Ma	lau	vi MZ Mozambique SD Sudan
	SL	. Sierra Leone, SZ Swaziland, T2	L'Unit	ed Republic of Tanzania, UG Uganda,	ZM.	Zan	nbia, ZW Zimbabwe, and any other
	Sta	ate which is a Contracting State	of the	Harare Protocol and of the PCT (if o	ther	kind	l of protection or treatment desired,
ND1 ∽.							
EA EA	A Eu Ri	rasian Patent: AM Armenia, A I Russian Federation, TI Tailbic	Z Aze	rbaijan, BY Belarus, KG Kyrgyzstan, M Turkmenistan, and any other State v	KZ I	Kaza	akhstan, MD Republic of Moldova,
		tent Convention and of the PCT	ian, I	141 Turkmenistan, and any other State v	WIIIC	11 15	a Contracting State of the Eurasian
X EF	Eu	ropean Patent: AT Austria. BE	Belgi	um, BG Bulgaria, CH & LI Switzerlan	id an	d Li	echtenstein, CY Cyprus, CZ Czech
	Re	public, DE Germany, DK Denm	ark, E	EE Estonia, ES Spain, FI Finland, FR	Fran	ice,	GB United Kingdom, GR Greece,
				C Monaco, NL Netherlands, PT Portu			
M o				a Contracting State of the European Pa			
MAN UF	A OF	A Gabon GN Guinea GO Equa	su Be torial	nin, CF Central African Republic, CG Guinea, GW Guinea-Bissau, ML Mal	COL	ngo, TRN	CI Cote d'Ivoire, CM Cameroon,
	TE	Chad, TG Togo, and any other	State	which is a member State of OAPI and	a Co	ntra	cting State of the PCT (if other kind
	of j	protection or treatment desired, s	pecify	on dotted line)			
Natio	nal P	atent (if other kind of protection	or tre	eatment desired, specify on dotted line):			
		ed Arab Emirates			X	ΝZ	New Zealand
📈 AG	Anti	gua and Barbuda	Ж	R Croatia	X	OM	I Oman
X AL	Alba	ania	Ж	TR Croatia	X	PH	Philippines
X AM	1 Arm	enia	X 11	O Indonesia	X	PL	Poland
XX AT	Aus	tria	XX II	Israel	X	PT	Portugal
		tralia		N India			
				P Japan			Russian Federation
X BB				E Kenya			
⊠ BG	Bulg	garia	X K	G Kyrgyzstan	X	SD	Sudan
X BR	Braz	zil	□к	P Democratic People's Republic	X	SE	Sweden
🗶 BY	Bela	rus		of Korea	X	SG	Singapore
⋈ BZ	Beli	ze	X K	R Republic of Korea	X	sĸ	Slovakia
CA CA				Z Kazakhstan			
		Switzerland and Liechtenstein					Tajikistan
		na					Turkmenistan
			MAIL NOT	R Liberia S Lesotho		TN	Tunisia
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		ch Republic			4.3		Timidad and Tobago
		many			X	ΤZ	United Republic of Tanzania
		mark	M M	IA Morocco	X	UA	Ukraine
		ninica	X M	ID Republic of Moldova	X	UG	Uganda
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				IK The former Yugoslav Republic of			
		nand		Macedonia			Viet Nam
		ed Kingdom		IWMalawi			
	Grei	_		IX Mexico			
GE GE	Geo	rgia	X M	IZ Mozambique	X	ZM	Zambia
X GH	I Gha	na	X N	O Norway			Zimbabwe
Check-	-boxe	s below reserved for designating	States	which have become party to the PCT	a fter	iem	cance of this sheet
M N	I Rep	ublic of Nicaragua	X F	PG Independent State of	er	1950	iance of this sheet.
		**********************	□ .F	Papua New Guinea			
				on to the designations made above, the			
other d	lesign	ations which would be permitted	l unde	er the PCT except any designation(s) is	ndica	ated	in the Supplemental Box as being
exclud	ed fro	m the scope of this statement. The	appli	cant declares that those additional design	gnati	ions	are subject to con firmation and that
any des	signat	ion which is not confirmed befor	e the e	expiration of 15 months from the priorit	ty da	te is	to be regarded as withdrawn by the
applica	ant at t	ine expiration of that time limit. (Confi	rmation (including fees) must reach the re	ceivi	ing (Iffice within the 15 -month time limit.)

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Sheet	X I -	_
Sheer	ואח	

Box No. VI PRIORITY CLAIM						
The priority of the following	g earlier application(s) is herel	by claimed:				
Filing date	Number	v	Where earlier application	is:		
of earlier application (day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office		
item (1) 26.06.02	Patent Application No. 2002-185707	JP				
item (2)		,				
item (3)						
item (4)						
item (5)	· ·			·		
Further priority claims	are indicated in the Suppleme	ental Box.				
The receiving Office is required if the earlier application was above as:	ested to prepare and transmit filed with the Office which for	to the International Bureau the purposes of this interna	u a certified copy of the extional application is the r	earlier application(s) (only receiving Office) identified		
all items item ((1) item (2)	item (3) item	(4) item (5)	other, see Supplemental Box		
* Where the earlier applicati Industrial Property or one M	ion is an ARIPO application, ir fember of the World Trade Or	ndicate at least one country rganization for which that (v party to the Paris Conve earlier application was fi	ention for the Protection of led (Rule 4.10(b)(ii)):		
Box No. VII INTERNAT	TIONAL SEARCHING AUT	ГНОКІТУ				
	arching Authority (ISA) (if t e the Authority chosen; the two		Searching Authorities are	competent to carry out the		
Request to use results of ea	arlier search; reference to t		earch has been carried oi	ut by or requested from the		
International Searching Auth Date (day/month/year)	<i>hority):</i> Numb			,		
Date (uuy/moninyeur)	Nume	jer Coun	ntry (or regional Office)			
Box No. VIII DECLARA	TIONS		11.1927			
	are contained in Boxes Nos. ate in the right column the num			Number of declarations		
Box No. VIII (i)	Declaration as to the identit	ty of the inventor		:		
Box No. VIII (ii)		Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent :				
Box No. VIII (iii)	Box No. VIII (iii) Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application :					
Box No. VIII (iv)	Declaration of inventorship United States of America)	ip (only for the purposes of	f the designation of the	· :		
Box No. VIII (v)	Declaration as to non-prej	udicial disclosures or exce	ptions to lack of novelty	· :		

		6
Sheet	Nο	U

Box No. IX CHECK LIST; LANG	GUAGE (OF FILIN	NG		
This international application contains (a) in paper form, the following num sheets:		item(s)	ernational application is accompanied by the following (mark the applicable check-boxes below and indicate in lumn the number of each item):	Number of items	
request (including			fee calculation sheet	: 1	
declaration sheets) :	6	2.	original separate power of attorney	:	
description (excluding sequence listings and/or		3. 🔲	original general power of attorney	: ,	
tables related thereto) :	61	4. 🗆			
claims :	6		if any:	:	
abstract :	1	5.	statement explaining lack of signature	: -	
drawings :	0	6. 🗆	priority document(s) identified in Box No. VI as item(s):	:	
Sub-total number of sheets: sequence listings:	74 2	7. 🗆		.	
tables related thereto : (for both, actual number of		8. 🗆	separate indications concerning deposited microorganism or other biological material	:	
sheets if filed in paper form, whether or not also filed in		9. 🛣		·	
computer readable form; see (c) below) ——		(i)	Copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application)։ FD:1	
Total number of sheets : (b) □ only in computer readable fo	76 rm	(ii)	(only where check-box (b)(i) or (c)(i) is marked in left column) additional copies including, where applicable, the copy for the	, ·	
(Section 801(a)(i)) (i) ☐ sequence listings		(iii)	purposes of international search under Rule 13ter together with relevant statement as to the identity of the copy	r	
(ii) ☐ tables related thereto (c) ☐ also in computer readable for	rm	10. 🗆	copies with the sequence listings mentioned in left column tables in computer readable form related to sequence listings	:	
(Section 801(a)(ii)) (i) ☐ sequence listings		(i)	(indicate type and number of carriers) Copy submitted for the purposes of international search under		
(ii) tables related thereto			Section 802(b-quater) only (and not as part of the international application)	:	
Type and number of carriers (disl CD-ROM, CD-R or other) on which contained the		(ii)	(only where check-box (b)(ii) or (c)(ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quater)	:	
sequence listings:		(iii)	together with relevant statement as to the identity of the copy of	г	
tables related thereto:		1, 197	copies with the tables mentioned in left column other (specify): Document providing information about FD.	;	
(additional copies to be indicated un items 9(ii) and/or 10(ii), in right co	nder lumn)	11. (2)	record format	:	
Figure of the drawings which Language of filing of the should accompany the abstract: Japanese					
Box No. X SIGNATURE OF AP Next to each signature, indicate the name of th	PLICAN' e person sig	T, AGEN	T OR COMMON REPRESENTATIVE e capacity in which the person signs (if such capacity is not obvious from reading	the request).	
KYOWA HAKKO KOGYO CO.	, LTD.		ADA Naoto (Sealed) TOKI Shinichiro (Sealed)		
(Sea	led)	HARU	OKA Motoko (Sealed) MIYAJI Hiromasa (Sealed	l)	
		IKEDA	Ken (Sealed) SHIMADA Junichi (Seale		
Date of actual receipt of the purpo	rted	—— rorr	eceiving Office use only	ings.	
international application:				J	
3 Corrected date of actual receipt du	e to later !		rece	eived:	
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:					
4. Date of timely receipt of the required corrections under PCT Article 11(2):					
5. International Searching Authority (if two or more are competent): ISA / 6. Transmittal of search copy delayed until search fee is paid					
For International Bureau use only					
Date of receipt of the record copy by the International Bureau:					